



MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 01/11/01

This MSDS complies with OSHA's Hazard Communication Standard CFR 1910.1200 and OSHA Form 174.

N/A SIGNIFIES NON-APPLICABLE

IDENTITY AND SUPPLIERS INFORMATION

PRODUCT NAME: ADENA 2320 AD23230

CHEMICAL FAMILY:

GENERIC NAME:

FORMULA: PROPRIETARY

SUPPLIER'S NAME: ADENA TECHNOLOGIES

PHONE NUMBER: (888) 247-2312

SUPPLIER'S ADDRESS: 101 Technology Lane

EMERGENCY NO.: (800)255-3924

Export, PA 15632

PROPER SHIPPING NAME: Corrosive Liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide), 8, UM 3266, PG II

NFPA HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	RATING
HEALTH	2
FLAMMABILITY	0
REACTIVITY	0
MAX PERSONAL PROTECTION	E

SECTION 1 - INGREDIENT IDENTIFICATION AND INFORMATION

CHEMICAL NAME	CARC.	CAS NO.	WT %	SARA III	PEL	TWA-TLV	STEL-TLV
Potassium Hydroxide	No	1310-58-3	<5	No	2 mg/m3	2 mg/m3	

SECTION 2 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N/D
VAPOR PRESSURE: N/D
VAPOR DENSITY: >1
SOLUBILITY IN WATER: Complete
SPECIFIC GRAVITY @20°C: 1.15
pH RANGE: 13.2
EVAPORATION RATE (Water=1): < 1
VOLATILE RATE: 80%
PHYSICAL DESCRIPTION: Amber liquid with faint odor.

SECTION 3 - FIRE/EXPLOSION HAZARD DATA

AUTO IGNITION TEMP: N/A
FLASH POINT: N/A
FLAMMABILITY LIMITS: N/A
EXTINGUISHER MEDIA: Not combustible
SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus when fighting fires involving this material.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable
CHEMICAL INCOMPATIBILITY: Strong acids, strong oxidizers
CONDITIONS TO AVOID: N/A
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur dioxide, phosphines, carbon monoxide, carbon dioxide
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 5 - HEALTH HAZARD DATA AND FIRST AID

PRIMARY ROUTES OF ENTRY:

SKIN: May cause severe skin irritation and/or chemical burns upon extended contact.
EYES: May cause severe irritation and possible eye damage.
INGESTION: May cause irritation or burns to upper respiratory tract.
INHALATION: May cause severe irritation or burns to mucous membranes.

FIRST AID PROCEDURES:

SKIN: Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
EYES: Immediately flush with large amounts of water for 15 minutes and get medical attention.
INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
INHALATION: Move to fresh air. Aid in breathing if necessary and get medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: NIOSH/MSHA approved filter type mask for dusts, fumes and mists as needed to maintain P.E.L.
VENTILATION: Local and/or mechanical exhaust to maintain exposure below P.E.L.
PROTECTIVE CLOTHING: Neoprene gloves, apron, boots – as necessary to prevent skin contact.
EYE PROTECTION: Chemical goggles.
OTHER PRECAUTIONS: Safety shower and eyewash fountains should be easily accessible.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Avoid skin contact. Neutralize with appropriate material and flush with water to sanitary sewer.
WASTE DISPOSAL METHODS: Corrosive. Dispose of in accordance with all applicable Federal, State, and Local regulations.
PRECAUTION IN STORAGE AND HANDLING: Empty containers may contain residuals. Thoroughly clean then offer for recycling, reuse, or disposal in accordance with governmental regulations.
OTHER PRECAUTIONS: Hazardous waste 40CFR261. Number D002.